IN THE CLAIMS:

The following listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-2 (Canceled)

3. (Currently Amended) The A system of claim 1, wherein the target sensor unit further for electronically actuating a firearm, comprising comprises:

a target sensor unit configured to determine a target offset angle, compute a point-of-aim offset angle, and generate a target sensor signal when the target offset angle and the point-of-aim offset angle are substantially coterminous, having the same end point, wherein the target sensor unit further comprises

a target sensor configured with a first detector to detect electromagnetic radiation having wavelengths within 8 to 14 microns and to generate detector signals[[;]], and

a target sensor processor coupled to the target sensor for analyzing the detector signals to generate the target sensor signal; and

a firing unit electrically coupled to the target sensor unit, the firing unit configured to electronically ignite one or more axially loaded ammunition loads upon receiving the target sensor signal and a trigger signal.

4. (Original) The system of claim 3, wherein the target sensor unit further comprises: a second detector configured to detect electromagnetic radiation having wavelengths within 3 to 5 microns and having signals which are spatially correlated with the signals of the first detector having wavelengths within 8 to 14 microns, and the target sensor processor analyzes signals from the first and second detectors, which first and second detector signals in ratio are indicative of target temperature.

5. (Currently Amended) The A system of claim 1, wherein the firing unit further for electronically actuating a firearm, comprising comprises:

a target sensor unit configured to determine a target offset angle, compute a point-of-aim offset angle, and generate a target sensor signal when the target offset angle and the point-of-aim offset angle are substantially coterminous, having the same end point; and

a firing unit electrically coupled to the target sensor unit, the firing unit

configured to electronically ignite one or more axially loaded ammunition loads upon

receiving the target sensor signal and a trigger signal, the firing unit further

comprising

an ammunition tube configured to store the one or more axially loaded ammunition loads;

an ammunition tube receiver configured to insertably accept the ammunition tube;

a fire controller for generating a firing signal upon processing the target sensor signal and the trigger signal; and

a sequence controller for sequentially discharging the one or more axially loaded ammunition loads upon receiving the firing signal.

6. (Original) The system of claim 5, wherein the ammunition tube has a conically shaped receiver end electrically coupled to the ammunition tube receiver, and a distal muzzle end for guiding the discharged one or more axially loaded ammunition loads.

- 7. (Original) The system of claim 5, wherein an outer wall thickness of the ammunition tube is 0.03 to 0.25 inches.
- 8. (Original) The system of claim 5, further comprising:
 - a plurality of receiver tube electrical contacts;
- a receiver firing circuit configured to electrically couple the sequence controller and the plurality of receiver tube contacts;
- a plurality of ammunition tube contacts electrically coupled to the plurality of receiver tube contacts; and

an ammunition tube internal firing circuit for electrically coupling each of the plurality of ammunition tube contacts with a corresponding ammunition load of the one or more axially loaded ammunition loads.

(Currently Amended) The system of claim 5, further comprising:
 a plurality of ammunition tubes;

an the ammunition tube receiver configured to insertably accept the plurality of ammunition tubes; and

a <u>the</u> sequence controller for sequentially discharging the one or more axially loaded ammunition loads in the plurality of ammunition tubes upon receiving the firing signal.

Claims 10-11 (Canceled)

12. (Original) The system of claim 3, wherein the target sensor is an array of microbolometer detector elements.

- 13. (Original) The system of claim 12, wherein the target sensor array is a quad cell detector array.
- 14. (Original) The system of claim 3, wherein the target sensor is an array of detector elements from among the class of barium strontium titanate, vanadium oxide, amorphous silicon or bimetal compositions.
- 15. (Currently Amended) The system of claim 14, wherein the <u>a</u> position of the <u>a</u> target is determined by the <u>a</u> sum of the moments of the signals from contiguous detector elements illuminated by a target image.

Claim 16 (Canceled)

17. (Currently Amended) A The method for actuating a firearm having axially loaded ammunition loads, comprising of claim 16, wherein the determining further comprises the steps of:

identifying a target based upon target radiation patterns having wavelengths within 8 to 20 microns;

determining the <u>a</u> point-of-aim offset angle based upon a bullet drop, a firearm delay time and the motion of the firearm; and

determining the <u>a</u> target offset angle based on motion of the target, a flight velocity of the one or more axially loaded ammunition loads, and a target range[[,]]; and[[:]]

electronically igniting the axially loaded ammunition loads when end points of the point-of-aim offset angle and the target offset angle are substantially coincident wherein the identifying further comprises the step of identifying a target based upon target radiation patterns having wavelengths within 8 to 20 microns.

- 18. (Currently Amended) The method of claim 167, further comprising the step of computing a centroid of the target radiation patterns, the centroid corresponding to the a target position.
- 19. (Currently Amended) The method of claim 167, further comprising the step of defining a central zone of the target radiation patterns, the central zone corresponding to the a target position.

20. (Currently Amended) The method of claim 19, wherein the central zone is bordered by a radiance contour, the radiance contour defined at points within the target radiation patterns where a second derivative of radiance of the target radiation patterns is zero along a chord of the target radiation patterns.

Claims 21-22 (Canceled)